

**Notice of Allowability**

Application No.

10/807,435

Examiner

Natalie K. Walford

Applicant(s)

KANG ET AL.

Art Unit

2879

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 7/12/06.
2. ☒ The allowed claim(s) is/are 1,3-7,9-14 and 16-28.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All b) ☐ Some\* c) ☐ None of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

## DETAILED ACTION

### *Response to Amendment*

The Amendment, filed on July 12, 2006, has been entered and acknowledged by the Examiner. Newly added claims 23-28 has been entered. Claims 1-28 are pending in the instant application.

### *Election/Restrictions*

Claims 1-18 are allowable. The restriction requirement among groups, as set forth in the Office action mailed on October 5, 2005, has been reconsidered in view of the allowability of claims to the elected invention pursuant to MPEP § 821.04(a). **The restriction requirement is hereby withdrawn as to any claim that requires all the limitations of an allowable claim.** Claims 5-13, directed to a plasma display panel are no longer withdrawn from consideration because the claim(s) requires all the limitations of an allowable claim.

In view of the above noted withdrawal of the restriction requirement, applicant is advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.

Once a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

***Drawings***

The drawings were received on July 12, 2006. These drawings are entered and acknowledged by the Examiner.

**EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with David Oren on September 29, 2006.

The application has been amended as follows:

Claims 2, 8, and 15 are cancelled.

Claims 17, 19, and 21 now depend on claim 14, not 15.

Claim 1 has been replaced with the following text: --A plasma display panel comprising: transparent ITO electrodes which are spaced in parallel to each other at a predetermined distance within a discharge cell; metal electrodes which are formed on the transparent ITO electrodes and in parallel to the transparent ITO electrodes, wherein central portions of the metal electrodes are closer to a central portion of the discharge cell than central portions of the transparent ITO electrodes and wherein said metal electrodes satisfy:  $d_2 < d_1/2$ , wherein  $d_1$  represents a distance from a central portion of said transparent ITO electrode to a central portion of said discharge

Art Unit: 2879

cell, and  $d_2$  represents a distance from a central portion of said metal electrode to a central portion of said discharge cell--.

Claim 5 has been replaced with the following text: --A plasma display panel comprising: transparent ITO electrodes which are spaced in parallel to each other at a predetermined distance within a discharge cell and are patterned so that a part of said transparent ITO electrodes is different in width, respectively; and metal electrodes which are formed on said transparent ITO electrodes and in parallel to said transparent ITO electrodes so that are positioned in the direction of opposite sides of said transparent ITO electrodes, respectively, and wherein said metal electrodes satisfy:  $d_2 < d_1/2$  wherein  $d_1$  represents distance from a central portion of said transparent ITO electrode to a central portion of said discharge cell, and  $d_2$  represents distance from a central portion of said metal electrode to a central portion of said discharge cell--.

Claim 14 has been replaced with the following text: --A plasma display panel comprising: transparent ITO electrodes which are spaced in parallel to each other at a predetermined distance within a discharge cell; metal electrodes which are formed on the transparent ITO electrodes and in parallel to the transparent ITO electrodes, wherein central portions of the metal electrodes are closer to a central portion of the discharge cell than central portions of the transparent ITO electrodes; and projecting metal electrodes which are jugged from the metal electrodes, respectively, and wherein said metal electrodes satisfy:  $D < H/4$ , wherein  $H$  represents a length of the discharge cell, and  $D$  represents a distance between a central portion of the metal electrode and a central portion of the discharge cell--.

Claim 26 has been replaced with the following text: --A plasma display panel comprising: metal electrodes formed in a discharge cell and formed to be close to a central

Art Unit: 2879

portion of the discharge cell and wherein said metal electrodes satisfy:  $d2 < d1/2$ , wherein  $d1$  represents a distance from a central portion of said transparent ITO electrode to a central portion of said discharge cell, and  $d2$  represents a distance from a central portion of said metal electrode to a central portion of said discharge cell--.

***Allowable Subject Matter***

Claims 1, 3-7, 9-14, and 16-28 are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding claim 1, the references of the Prior Art of record fail to teach or suggest the combination of the limitations as set forth in claim 1, specifically for the limitation of  $d2 < d1/2$ . The closest reference of the Prior Art is Lee (US 6,720,736), which shows the metal electrodes in the middle of the transparent electrodes, but not closer to the discharge gap than the center of the transparent electrodes.

Regarding claims 3-4 and 23-25 claims 2-4 and 23-25 are allowable for the reasons given in claim 1 because of their dependency status from claim 1.

Regarding claim 5, the references of the Prior Art of record fail to teach or suggest the combination of the limitations as set forth in claim 5, specifically for the limitation of  $d2 < d1/2$ . The closest reference of the Prior Art is Lee (US 6,720,736), which shows the metal electrodes in the middle of the transparent electrodes, but not closer to the discharge gap than the center of the transparent electrodes.

Regarding claims 6-7 and 9-13 claims 6-7 and 9-13 are allowable for the reasons given in claim 5 because of their dependency status from claim 5.

Art Unit: 2879

Regarding claim 14, the references of the Prior Art of record fail to teach or suggest the combination of the limitations as set forth in claim 14, specifically for the limitation of  $D < H/4$ . The closest reference of the Prior Art is Lee (US 6,720,736), which shows the metal electrodes in the middle of the transparent electrodes, but not closer to the discharge gap than the center of the transparent electrodes.

Regarding claims 16-22 claims 16-22 are allowable for the reasons given in claim 14 because of their dependency status from claim 14.

Regarding claim 26, the references of the Prior Art of record fail to teach or suggest the combination of the limitations as set forth in claim 26, specifically for the limitation of  $d_2 < d_1/2$ . The closest reference of the Prior Art is Lee (US 6,720,736), which shows the metal electrodes in the middle of the transparent electrodes, but not closer to the discharge gap than the center of the transparent electrodes.

Regarding claims 27-28 claims 27-28 are allowable for the reasons given in claim 26 because of their dependency status from claim 26.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Art Unit: 2879

Nagano (US 6,031,329) is cited to show a plasma display panel.

Min et al. (US PUB 2005/0093445) is cited to show a plasma display panel.

***Contact Information***


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Natalie K. Walford whose telephone number is (571)-272-6012. The examiner can normally be reached on Monday-Friday, 8 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (571)-272-2457. The fax phone number for the organization where this application or proceeding is assigned is (571)-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

nkW

*Natalie Walford*  
10/2/00



NIMESHKUMAR D. PATEL  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2800